

Title (en)

PAYLOAD FOR A MULTIBEAM COMMUNICATION SATELLITE OF A HUB-SPOKE SYSTEM WITH RECEIVE AND TRANSMIT SWITCHING PATTERN SYNCHRONIZED OVER A FRAME FOR FLEXIBLE FORWARD AND RETURN CAPACITY ALLOCATION.

Title (de)

NUTZLAST FÜR EIN KOMMUNIKATIONSATELLIT EINES STERNFÖRMIGEN SYSTEMS MIT MEHRSTRAHLANTENNEN SOWIE MIT ÜBER EINEN RAHMEN SYNCHRONISierter EMPFANG- UND SENDESCHALTUNGSMUSTER ZUR FLEXIBLEN VORWÄRTS UND RÜCKWÄRTS KAPAZITÄTZUWEISUNG.

Title (fr)

CHARGE UTILE POUR SATELLITE DE COMMUNICATION D'UN SYSTÈME ÉTOILÉ À FAISCEAUX MULTIPLES AVEC MOTIFS DE COMMUTATION DE RÉCEPTION ET DE TRANSMISSION SYNCHRONISÉS SUR UNE TRAME POUR UNE ALLOCATION FLEXIBLE DE CAPACITÉ ALLER ET RETOUR.

Publication

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Application

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Abstract (en)

[origin: US8340015B1] A method for communicating includes providing a hub-spoke satellite comprising receivers, transmitters, transmit switches, and a gateway switch structure. Prior to a time T, each of at least P receivers are used to receive one of at least P signals from P gateway terminals. During one frame, the gateway switch structure is used to switch the at least P signals to the plurality of transmit switches. Each of the at least P signals are switched into fixed location beams. After time T, each of at least Q receivers are used to receive a different one of at least Q signals from Q gateway terminals. During one frame, the gateway switch structure is used to switch the at least Q signals to the plurality of transmit switches. Each of the at least Q signals are switched into fixed location beams. Q and P are non-zero positive integers and  $Q > P$ .

IPC 8 full level

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